f 2022 HILLIAND H

$$f(x_2) = \frac{f(b) - f(a)}{b - a} = 0$$

$$(\frac{3}{5}, \frac{6}{5})$$

$$A_{\square}^{(\frac{3}{5},\frac{6}{5})}$$
 $B_{\square}^{(\frac{2}{5},\frac{6}{5})}$
 $C_{\square}^{(\frac{2}{5},\frac{3}{5})}$

$$C\Pi^{(\frac{2}{5},\frac{3}{5})}$$

$$\mathbf{D}_{\square}^{(1,\frac{6}{5})}$$

$$f(x) = x^{2} - \frac{6}{5}x^{2} \qquad f(x) = 3x^{2} - \frac{12}{5}x$$

$$f(x) = x^2 - \frac{6}{5}x^2$$

$$\lim_{t \to 0} [0_{t}]_{t} \int_{0}^{t} X_{t} \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_{t} < t\right) \int_{0}^{t} X_{t} \left(0 < X_{t} < X_$$

$$f(x_1) = f(x_2) = \frac{f(t) - f(0)}{t}$$

$$3x^2 - \frac{12}{5}x = t^2 - \frac{6}{5}t$$

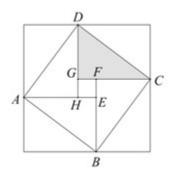
$$g(x) = 3x^2 - \frac{12}{5}x - t^2 + \frac{6}{5}t$$

$$X = -\frac{\frac{12}{5}}{\frac{6}{6}} = \frac{2}{5} > 0$$

$$\frac{3}{5} < t < \frac{6}{5}$$

$$\therefore 00 t_{000000} (\frac{3}{5}, \frac{6}{5})_{0}$$

 $\,\,\square\square\,\,A_\square$



A_□25

B_□27

C_□29

D_□31

$$\square EP = \lambda EF(0, \lambda, 1) \square BQ = \mu BC(0, \mu, 1) \square$$

$${}_{\square}|AE|{=}4{}_{\square}|AB|{\dashv}|BC|{=}5{}_{\square}|EF|{=}4\cdot 3{=}1{}_{\square}$$

$$AP \cdot AQ = (AE + EP) \cdot (AB + BQ) = (AE + \lambda EF) \cdot (AB + \mu BC)$$

$$= AE \cdot AB + \lambda EF \cdot AB + \mu AE \cdot BC + \lambda \mu EF \cdot BC$$

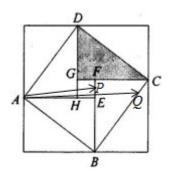
$$=4\times5\times\frac{4}{5}-\lambda\cdot(1\times5\times\frac{3}{5})+\mu\cdot(4\times5\times\frac{3}{5})+\lambda\mu\cdot(1\times5\times\frac{4}{5})$$

$$\begin{smallmatrix} \begin{smallmatrix} \begin{smallmatrix} \end{smallmatrix} & 0,, \; \lambda_{*}, \; 1_{ \color{red}\square} \\ 0,, \; \mu_{*}, \; 1_{ \color{red}\square} \\ \end{smallmatrix}$$

$$\therefore \underline{\quad} \mu = 1_{\square \square} 16 - 3\lambda + (12 + 4\lambda)\mu_{\square \square \square \square} 16 - 3\lambda + 12 + 4\lambda = 28 + \lambda_{\square}$$

$$00^{\lambda} = 1_{00} 28 + \lambda_{00000} 290$$

 $\Box\Box\Box$ C_{\Box}



 $\square^{\angle PMQ=90^{\circ}}$ or m_{000000}

0000000 I: 3x + 4y + m = 0

 ${}_{\square} \, {}^{P\!M_{\!_{\square}}} \, {}^{Q\!M_{\!_{\square}}} {}_{\square \square \square} \, {}^{C} {}_{\square \square \square} \, {}^{\angle P\!M_{\!_{\square}}} {}^{Q} {}_{\square \square}$

 $d = \frac{|3 \times 2 + 4 \times 0 + m|}{5}$

 $_{\square} \angle PM_{0}Q.90 \stackrel{d}{=} \frac{|3 \times 2 + 4 \times 0 + m|}{5}$, 2 $_{\square\square\square}$ - 16,, m, 4 $_{\square}$

 $m_{000000}^{-16} - m_{000000}^{-16}$

 $\,\,\Box\Box\Box\,A\Box$

 $4002021 \cdot 000000000 \frac{X_2 > X_1 > 1}{00000000000}$

$$\frac{X_1}{X_2} > \sqrt{e^{X_1 - X_2}}$$

$$A \square$$

$$\frac{X_1}{X_2} < \sqrt{e^{X_1 - X_2}}$$

$$\ln \frac{X_1}{X_2} < e^{X_1} - e^{Y_2}$$
 $C \square$

$$ln\frac{X_1}{X_2} > e^{X_1} - e^{Y_2}$$

$$f(x) = \frac{x^{2}}{e^{x}}(x > 1) \qquad f(x) = \frac{x(2-x)}{e^{x}}$$

$$\bigcirc \stackrel{X \in (1,2)}{\bigcirc} \bigcirc \stackrel{f(x)}{\bigcirc} > 0 \bigcirc \bigcirc \stackrel{f(x)}{\bigcirc} \stackrel{(1,2)}{\bigcirc} \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$$

$$\frac{X}{X_{2}} = \sqrt{e^{X-X_{2}}} \qquad \qquad g(X) = e^{X} - InX(X > 1) \qquad g'(X) = e^{X} - \frac{1}{X} = \frac{Xe^{X} - 1}{X} > 0$$

$$\frac{\ln \frac{X_1}{X_2} > e^{X_1} - e^{Y_2}}{\Box}$$

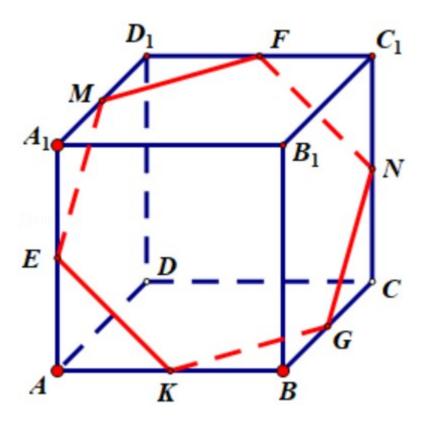
 $\square\square\square\,D_\square$

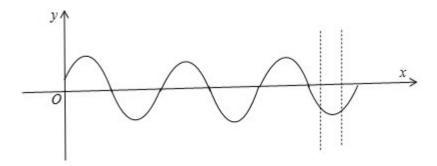
 $5002021 \bullet 00000000 \stackrel{ABCD-}{-} \stackrel{ABCD-}{$

$$A \square$$
 $A \square$
 $B \square$
 $A \square$

 $0000000 \stackrel{AP_0}{\sim} \stackrel{CC}{\sim} AB_{000} \stackrel{M_0}{\sim} \stackrel{N_0}{\sim} K_{000} \stackrel{EM_0}{\sim} MF_0 \stackrel{FN_0}{\sim} NG_0 \stackrel{GK_0}{\sim} EK_0$

$$6\times(\frac{1}{2}\times\sqrt{2}\times\sqrt{2}\times\sin 60^\circ)=3\sqrt{3}$$





$$5\pi, 2\pi\omega + \frac{\pi}{5} < 6\pi$$

$$\bigcap_{\Omega} C_{\Omega} \stackrel{X \in (0,\frac{\pi}{10})}{=} \bigcap_{\Omega} \omega_{X} + \frac{\pi}{5} \in (0,\frac{\pi}{2}) \\ \bigcap_{\Omega} \omega > 0 \\ \bigcap_{\Omega \in \Omega} f(x) = (0,\frac{\pi}{10}) \\ \bigcap_{\Omega \in \Omega} C_{\Omega} \stackrel{X \in (0,\frac{\pi}{10})}{=} \bigcap_{\Omega \in \Omega} \omega_{X} = 0$$

$$D_{00} = 5\tau, \ 2\pi\omega + \frac{\pi}{5} < 6\tau \qquad \frac{12}{5}, \ \omega < \frac{29}{10} < 3 \qquad D_{000}$$

7002021 • 0000000000 P0000 ABCD- ABCD000 ABCD00000000 ADP00 BCP00000000 A

$$A \square \angle APC > \angle BPD$$

$$\mathbf{B} \square \angle APC < \angle BPD$$

$$\max\{\angle APD \ \angle BPC\} > \max\{\angle APB \ \angle CPD\}$$
 C \(\Boxed{\text{C}}

$$min\{\angle APD \angle BPC\} > min\{\angle APB \angle CPD\}$$

 \square $ADP_{\square \square}$ $BCP_{\square \square \square \square \square \square \square \square \square}$ α \square $ABP_{\square \square}$ $CDP_{\square \square \square \square \square \square \square \square}$ β \square $\alpha > \beta$ \square

 $0000 P_0 H\!F_00000 E\!G_00000$

000 P000000000

 $\angle APC_{\square} \angle BPD_{\square\square\square\square} \stackrel{PQ}{=} AC_{\square} BD_{\square\square\square\square\square\square\square\square\square\square}$

$$\square \square \angle BPD > \angle APC_{\square}$$

$$\square\square\square\square P\square\square\square\square D\square\square \angle APC> \angle BPD\square$$

$$000 A 00000 B 000$$

$$\angle APD_{\square} \angle BPD_{\square \square \square \square \square \square} P_{\square \square} EG_{\square \square \square \square \square \square}$$

$$0000000 \angle APD > \angle BPC_{\square}$$

$$0000000 \angle APD < \angle BPC_{\square}$$

$$\square\square\square EG\square\square\square \angle APD = \angle BPC\square$$

$$0000 P_{\square} HF_{00000} \angle APB > \angle CPD_{\square}$$

$$\square P \square HF \square \square \angle APB = \angle CPD \square$$

$$0000P_{\square}AOH_{\square\square\square}\max\{\angle APD_{\square}\angle BPC\}=\angle APD_{\square}\min\{\angle APD_{\square}\angle BPC\}=\angle BPC_{\square}$$

$$\mathit{max}\{\angle\mathit{APB}_{\square} \angle\mathit{CPD}\} = \angle\mathit{APB}_{\square} \mathit{min}\{\angle\mathit{APB}_{\square} \angle\mathit{CPD}\} = \angle\mathit{CPD}_{\square}$$

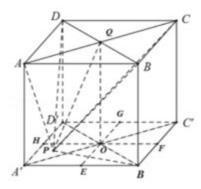
$$\square \angle APD > \angle APB \square$$

$$\square$$
 $PG < PF$

$$\square \angle BPC < \angle CPD$$

$$000 C_{00000} D_{000}$$

$\square\square\square \ ^{C}\square$



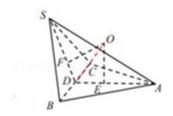
o⁽) A∏0 $B \square 2$ $C \square 0 \square 2$ $D \sqcap 0 \sqcap 6$ $0000000 \stackrel{M(X_0 Y_1)}{\longrightarrow} N(X_0 Y_2) \underset{\square}{\longrightarrow} X \neq X_0 \stackrel{M(X_0 Y_2)}{\longrightarrow} U(X_0 Y_2) \underset{\square}{\longrightarrow} X \neq X_0 \stackrel{M(X_0 Y_2)}{\longrightarrow} U(X_0 Y_2) \underset{\square}{\longrightarrow} U(X_0 Y_2) \underset$ $\frac{X_1^2}{2} + y_1^2 = 1$ $\frac{\left|\frac{X_{2}^{2}}{2} + y_{2}^{2}\right| = 1}{2} = \frac{(X_{1} + X_{2})(X_{1} - X_{2})}{2} + (Y_{1} + Y_{2})(Y_{1} - Y_{2}) = 0$ $\frac{\cancel{X} - \cancel{Y_2}}{\cancel{X} - \cancel{X_2}} = -\frac{1}{2} \times \frac{\cancel{X} + \cancel{Y_2}}{\cancel{X} + \cancel{X_2}}$ $\begin{cases} X + X_2 = 2X_0 \\ Y_1 + Y_2 = 2Y_0 & \text{odd} \end{cases} K_{MN} = -\frac{1}{2} \cdot \frac{X_0}{Y_0} M_0 N_{000000} Y = -X + t_{000}$ $00000 y^2 = X_{00} (-t)^2 = 2t_{000} t = 9_0 t = 2_0$ $\Pi\Pi\Pi C\Pi$ B⊓ ⁷/₃π $A \prod \frac{4}{3} \pi$ $C\Pi^{3\tau}$ nnnnnnn BCnnn Dnnn ADn SDn $\square\square\square\square AD \bot BC_{\square} SD \bot BC_{\square}$ $\therefore \angle ADS_{0000} A - BC - S_{000000} \angle ADS = \frac{2\tau}{3}$ $\square \square \square \square BC \perp \square \square ADS \square$

$$BD = \frac{1}{2} DAD = \frac{\sqrt{3}}{2} DE = \frac{1}{3} AD = \frac{\sqrt{3}}{6} AE = \frac{2}{3} AD = \frac{\sqrt{3}}{3}$$

$$\therefore OA^{c} = OE^{c} + AE^{c} = \frac{7}{12}$$

$$S=4\tau R=\frac{7\pi}{3}$$

 $\square\square\square\,B_\square$



and P and AB and an analogous P and P

$$A \sqcap (\sqrt{14}, 3\sqrt{6})$$

$$(\sqrt{15}, 6\sqrt{2})$$

$$_{\square}|_{\Gamma^{-}} 3 |_{S} \leq r + 3_{\square \square \square} r \in (2,8)_{\square}$$

o Pooo ABooooo Poooo1 ooooooo Moooooooo Poooo

00 O_{00} $M_{0000000000}$ AB_{0000} $6x + 8y - 16 - r^2 = 0$

000 $M_{00} P_{00000}$

$$|MP| = \frac{|34 - r^2|}{10} \frac{|34 - r^2|}{10} < 2$$

$$\Pi \sqrt{14} < r < 3\sqrt{6} \Pi$$

 $\,\,\square\square\square\,\,A\square$

 $\mathbf{11002021} \bullet \mathbf{0000000000} \, ^{D} \mathbf{000} \, ^{S_{n}} \mathbf{000000} \, ^{\{d_{n}\}} \mathbf{000} \, ^{d_{n}} > \mathbf{00000} \, ^{q \neq 1} \mathbf{00000000000} \, ^{(} \qquad)$

$$q=2$$
 $S_n < a_{n+1}$

$$\begin{array}{ccc} q.2 & \{a_{\!\scriptscriptstyle j}\} \\ \text{Col} & \text{col} & \text{col} \end{array}$$

$$D_{\square\square} \overset{S_k > \ q^m S_{k-1}(k,2,m,2,k \in N, m \in N)}{\square} \overset{S_m > \ q^k S_{m+1}}{\square}$$

$$S_n = \frac{a_1(1-q^n)}{1-q} = \frac{a_1}{1-q} - \frac{a_1q^n}{1-q} < \frac{a_1}{1-q} - \frac{a_1}{1-q} = \frac{a_1}{1-q} - \frac{a_1q^n}{1-q} = \frac{a_1}{1-q} = \frac{a_1}{1-$$

$$S_n = \frac{a_1(1-2^n)}{1-2} = a_1 \cdot 2^n - a_1 = a_{n+1} - a_1 < a_{n+1} = a_{n+1} - a_1 < a_{n+1} = a_{n+1} = a_1 + a_2 = a_1 + a_2 = a_2 =$$

$$D_{\text{od}} S_{k} > q^{\text{tr}} S_{k-1} \\ O_{\text{od}} \\ O_{\text{tr}} S_{k} > q^{\text{tr}} S_{k-1} \\ O_{\text{od}} \\ O_{\text{tr}} \\$$

$$\frac{a - a q^{k}}{1 - q} > \frac{a q^{m} - a q^{m} \cdot q^{k}}{1 - q} = \frac{a - a q^{m}}{1 - q} > \frac{a - a q^{m} \cdot q^{k}}{1 - q} = \frac{a \cdot q^{m} \cdot q^{k}}{1 - q}$$

$$\bigcup_{m} S_m > q^{\dagger} S_{m+1} \bigcup_{m} D_{m+1}$$

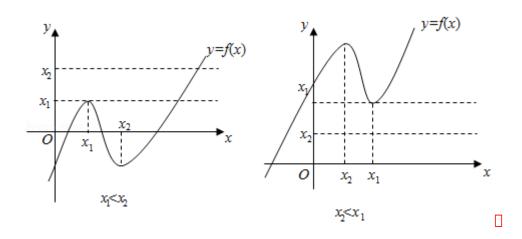
 $\Pi\Pi\Pi C\Pi$

①
$$f(x) = [-1]^2$$

$$(2)^{f(x)} [0] [\frac{\pi}{2}]$$

(a)
$$f(x) = \frac{3\tau}{4} = \frac{3\tau}{4}$$

```
A[]1 []
                  B[]2 []
                                  C[]3 []
                                                  D \square 4 \square
   \text{PRIMED TO } f(x) \neq \cos x | + \cos |2x| + \cos x | + \cos 2x + \cos x | + 2|\cos^2 x | - 1_{\square}
   \int t d \cos x |(0, t, 1)|
    |f(x)| = |\cos x| + 2\cos^2 x - 1 = 2t + t - 1 
   \therefore g(b) \in [g(0)_{\square} g_{\square 1 \square}] = [-1_{\square} 2]_{\square \square} f(x)_{\square 1 \square} [-1_{\square} 2]_{\square \square \square \square}
   3[[[
    4 f(\tau + x) = \cos(\tau + x) + \cos|2(\tau + x)| + \cos|2(\tau + x)| + \cos|2x| + \cos|2x| = f(x) 
   000A_0
A \square 3
                  B \square 4
                                  C<sub>□</sub>5
                                                  D \square 6
000000 f(x) = 3x^2 + 2ax + b_0 X_0 X_2 000 3x^2 + 2ax + b = 0
3(f(x))^2 + 2af(x) + b = 0 f(x) = x f(x_2) = x_2
```



$$\frac{2\sqrt{3}}{3}$$

$$\frac{4\sqrt{3}}{3}$$

$$\frac{2\sqrt{3}}{3}$$

00000100 A 0 B 0 Y 0000000 A 000000

 $0000 \stackrel{\Delta}{\sim} OAB_{0000000} \stackrel{M_{00}}{\sim} M_{00} \stackrel{M_{00}}{\sim} AOB_{0000} \stackrel{OX_{0000}}{\sim} M_{000} \stackrel{M_{00}}{\sim} M_{0} \stackrel{M_{0}}{\sim} M_{0} \stackrel{M_$

 $\square FA \perp OA_{\square \square \square} MIAN_{\square \square \square \square \square \square \square \square \square \square \square} b_{\square} \mid FA \mid = b_{\square \square} \mid OF \mid = c_{\square \square \square} \mid OA \mid = a_{\square} \mid AA \mid = a_{\square} \mid AA$

$$||M|||M|| = \frac{\sqrt{3} \cdot 1}{2} a_{000} ||M|| = \frac{3 \cdot \sqrt{3}}{2} a_$$

$$\frac{b}{a} = \tan \angle AOF = \frac{|MV|}{|NO|} = \frac{\sqrt{3}}{3} \qquad e = \sqrt{1 + (\frac{b}{a})^2} = \frac{2\sqrt{3}}{3}$$

 $200 \ A_0 \ B_0 \ Y_{0000000} \ A_{000000000} \ |FA| = b_0 \ |OF| = c_0 \ |OA| = a_0$

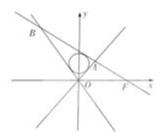
$$\frac{|AB| + |OA| - |OB|}{2} = \frac{\sqrt{3} - 1}{2} a$$

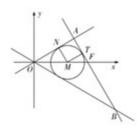
$$\bigcirc \bigcirc |OB| - |AB| = 2a - \sqrt{3}a_{\bigcirc}$$

$$|OB|^2 = |AB|^2 + a^2 \cos |AB| = \sqrt{3}a \cos |OB| = 2a \cos |AB|$$

 $000000 C_{000000} \frac{2\sqrt{3}}{3} 0.20$

 $\square\square\square\,D\square$



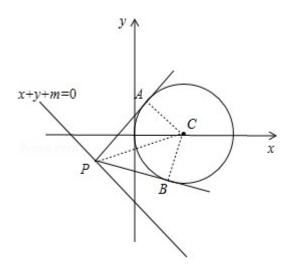


$$[-2\sqrt{2},2\sqrt{2}]$$

0000000000 $C_{000}(x-2)^2 + y^2 = 4_{0000}(2,0)_{000} r = 2_0$

 $0 P_{00} C_{000000000} A_{0} B_{000} PC_{0}$

 $\square \angle APB = 60^{\circ} \square \square \angle APC = 30^{\circ} \square \square \square \square \square$



 \square $CA \perp PA$

$$\square^{\mid PC\mid=2\mid CA\mid=2r=4} \square^{}$$

$$000^{1: X + y + m = 0} 0000^{P} P_{000} \angle APB = 60^{\circ} 0$$

$$C_{000} I_{000} d = \frac{|2+m|}{\sqrt{1+1}}, 4$$

$$\ \, \underline{m}_{\text{000000}} [\text{-} \ 4\sqrt{2} \, \text{-} \ 2.4\sqrt{2} \, \text{-} \ 2]_{\text{0}}$$

 $\square\square\square\,D\square$

$$y=2[f(x)]+[f(-x)]_{\square\square\square\square}($$

$$f(x) = \frac{e^x}{e^x + 1} - \frac{1}{2} = 1 - \frac{1}{e^x + 1} - \frac{1}{2} = \frac{1}{2} - \frac{1}{e^x + 1} R_{000000}$$

$$f(x) \in (-\frac{1}{2} 0) \quad \text{on} \quad f(x) = -1 \quad [f(-x)] = 0$$

$$y = \chi f(x) + [f(-x)]_{----} \{-1_{-}0\}_{---}$$

$$y=2[f(x)]+[f(-x)]_{0000}\{-2_{0}-1_{0}0\}_{0}$$

 $000A_0$

$$f(x) = \sin|x| + \frac{1}{\sin|x|}$$

① f(x) _____

②
$$f(x) = \frac{\pi}{2} = \frac{\pi}{2}$$

(4)
$$f(x) = (-\frac{\pi}{2} = 0) = 0$$

 $A \square 2$

 $B \square \textcircled{4}$

 $C \square 2 4$

D[134

$$f(x) = \sin|x| + \frac{1}{\sin|x|}$$

$$\sin |x| > 0 \quad \sin |x| + \frac{1}{\sin |x|} \cdot 2\sqrt{\sin |x|} \cdot \frac{1}{\sin |x|} = 2$$

$$X \in \left(-\frac{\pi}{2} \right) \cap f(X) = -\sin X - \frac{1}{\sin X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^3 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^2 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^2 X}{\sin^2 X} \cap f(X) = -\cos X + \frac{\cos X}{\sin^2 X} = \frac{\cos^2 X}{\sin^2$$

 $18 \\ \square 2021 \bullet \square ABCD_{\square \square \square} \\ AB = CD \\ = \sqrt{3} \\ \square \\ AC \\ = BD \\ = 2 \\ \square \\ AD \\ = BC \\ = \sqrt{5} \\ \square \square \square \square \\ ABCD_{\square \square \square} \\ ABCD_{\square \square \square} \\ ABCD_{\square \square \square} \\ ABCD_{\square \square \square} \\ ABCD_{\square \square} \\ ABCD_{\square} \\ A$

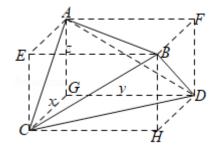
 $\mathsf{DDDDD}^{(})$

A□²π

 $B \square^{4\tau}$

C□ 67

D∏⁸⁷

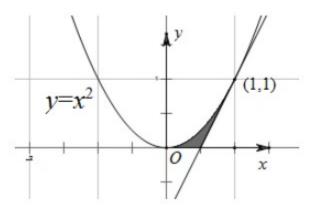


$$\begin{cases} AB^{2} = x^{2} + y^{2} = 3\\ AC^{2} = x^{2} + z^{2} = 4\\ AD^{2} = y^{2} + z^{2} = 5 \end{cases}$$

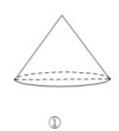
 $2R = \sqrt{x^2 + y^2 + z^2} = \sqrt{6}$

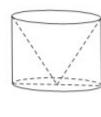
000000 ABCD000000000 $4\tau R = \tau \times (2R)^2 = 6\tau$ 0

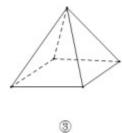
 $\Pi\Pi\Pi C\Pi$

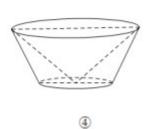


Tweed, col









ooooooooooooo $^{(}$

 $A \square {\bf 1}$

 $B \square 2$

C[]3

D∏**④**

 $000000000 \ y = t_{00} \ y = \vec{x}_{000} (\sqrt{t}, t)_{000} 0, \ t, 1_{0}$

000000 20000000 $y=2x-1_0$

$$y = t_{\square} y = 2x - 1_{\square \square \square} (\frac{t+1}{2}, t)_{\square}$$

aaaaaaaaaaaa T aaaaaaaaaa

$$\pi(\frac{t+2t+1}{4}-t)=\pi\cdot\frac{(t-1)^2}{4}$$

 $\frac{1}{2}(t-1)$

$$\frac{\pi \cdot \frac{(t - 1)^2}{4}}{000000}$$

$$000 \frac{1}{4} \pi - \frac{1}{4} \pi t^{2} 0000000$$

$$\pi \cdot (\frac{t+1}{2})^2 - \pi t^2 = \frac{\pi (1 - t)(1 + 3t)}{4}$$

 $\square\square\square\,A_\square$

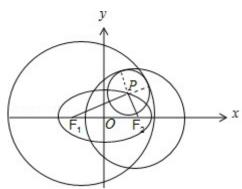
 $0 < r < a_{0000} C_{00000} ($)

$$\mathbf{A}$$
 $\boxed{\frac{1}{2}}$

$$\frac{3}{4}$$

$$\frac{\sqrt{10}}{4}$$

$$\begin{array}{c} \frac{\sqrt{15}}{4} \\ D \end{array}$$



 $000 P_{0000} F_{0000000} F_{1} : (x + c)^{2} + y^{2} = 4a^{2} \sum_{i=1}^{n} F_{2} : (x - c)^{2} + y^{2} = a^{2} \sum_{i=1}^{n} F_{2} : (x - c)^{2} : (x -$

$$|PF_1| + r = 2a |PF_2| + r = a$$

$$|PF_1| = \frac{3a}{2} |PF_2| = \frac{1}{2} a$$

 $_{\square} Rt_{\triangle} PF_{1}F_{2} _{\square\square\square} PF_{1} \perp PF_{2} _{\square\square\square} |PF_{1}|^{2} + |PF_{2}|^{2} \dashv |F_{1}F_{2}|^{2}$

$$\frac{9}{4}\vec{a}^2 + \frac{1}{4}\vec{a}^2 = 4\vec{c}^2 \qquad e = \frac{\sqrt{10}}{4}(e > 1)$$

 $_{\square\square\square}\,{}^{C}{}_{\square}$

$$A \Box^{12\tau}$$

$$B\Pi^{167}$$

$$D \square^{24\tau}$$

 $\bigcirc G_{\square\square\square\square\square\square\square} H_{\square\square\square} ABD_{\square\square\square\square\square\square\square} O_{\square\square} O_{\square\square\square\square} A - BCD_{\square\square\square\square\square\square\square\square}$

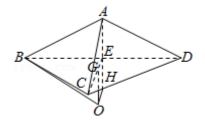
$$OH = GE = \frac{1}{3}\sqrt{(2\sqrt{3})^2 - (\sqrt{3})^2} = 1$$

$$\frac{2}{1} = 2r$$

$$r = 2$$

 \therefore 0000000000000 $4\tau R$ =20 τ 0

 $\Box\Box\Box$ $C\Box$



22002021•0000000
$$e^{x}$$
- y > lny - x 00 ()

AD BD CD DD X< lny

AD DD X< lny

$$\square e^x + x > y + \ln y = e^{\ln y} + \ln y$$

$$\bigcirc g(x) \bigcirc R_{\square \square \square \square} g(x) > g(lny) \bigcirc$$

$$\square^{X > lny}$$

 $\square\square\square\ B_\square$

and
$$M_{\Box\Box}N_{\Box\Box\Box\Box\Box}M_{\Box}^{MN=3F_1N_{\Box\Box\Box\Box}}F_1^{-}_{\Box}F_1^{-}P_{\bot}OM_{\Box}P_{\Box\Box}O_{\Box\Box\Box\Box\Box\Box\Box}|ON| \stackrel{!}{=} OP|_{\Box\Box\Box\Box}E_{\Box\Box\Box}e=(0)$$

$$A \square$$
 $\sqrt{5}$
 $B \square$
 $\sqrt{3}$
 $C \square$

$$E: \frac{X^{2}}{a^{2}} - \frac{y^{2}}{b^{2}} = 1(a > 0, b > 0) \qquad y = \pm \frac{b}{a} X$$

$$M(x,-\frac{b}{a}x_1) N(x_2,-\frac{b}{a}x_2) F_1(-c,0)$$

$$MN = (X_2 - X_1 \bigcap \frac{b}{a} X_2 + \frac{b}{a} X_1) \bigcap F_1 N = (X_2 + C_3 \frac{b}{a} X_2)$$

$$MN = 3F_1 N_{11} \begin{cases} x_2 - x_1 = 3x_2 + 3c \\ \frac{b}{a}x_2 + \frac{b}{a}x_1 = \frac{3b}{a}x_2 \\ 0 & 1 \end{cases} \begin{cases} x_1 = -\frac{3}{2}c \\ x_2 = -\frac{3}{4}c \\ 0 & 1 \end{cases}$$

$$|F_1P| = \frac{|-cb|}{\sqrt{a^2 + b^2}} = b$$

$$|OF_1| = c$$

$$\therefore |OP| = \sqrt{c^2 - b^2} = a_{\square \square} |ON| = |OP| = a_{\square}$$

$$\frac{3\vec{c}^2}{4a} = a \qquad \therefore e = \frac{c}{a} = \frac{2\sqrt{3}}{3}$$

 $_{\square\square\square}\,{}^{C}{}_{\square}$

$$00000 \triangle OPF_1 \triangle ONF_1 \bigcirc 0000 |ON| \dashv OP|_0 |OF_1| \dashv OF_1 |\dashv OF_1|_0 \angle POF_1 = \angle NOF_1 \bigcirc 0000 |ON| + OP|_0 |OP|_0 |OP|_0$$

$$\square^{\Delta} \mathit{OPF}_1 \cong \Delta \mathit{ONF}_1 \square^{\square} \quad \mathit{F}_1 P \perp \mathit{OM}_1 \cdots \mathit{F}_1 N \perp \mathit{ON}_1$$

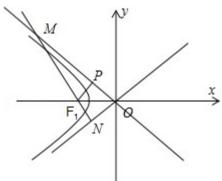
$$|F_1N| = m_{100} |F_1P| = m_{11} |MF_1| = 2m_{1000} \sin \angle PMF_1 = \frac{|F_1P|}{|MF_1|} = \frac{m}{2m} = \frac{1}{2}$$

$$\therefore \angle PMF_1 = 30^{\circ} \bigsqcup_{\square\square\square} \angle MON = 60^{\circ} \bigsqcup_{\square\square} \angle F_1ON = 30^{\circ} \bigsqcup_{\square\square} \angle F_1ON = 30^{\circ}$$

$$\therefore \tan 30^\circ = \frac{b}{a} = \frac{\sqrt{3}}{3}$$

$$\therefore e = \frac{c}{a} = \sqrt{1 + \frac{B}{a^2}} = \sqrt{1 + \frac{1}{3}} = \frac{2\sqrt{3}}{3}$$

 $\Box\Box\Box$ C



$$24_{\square\square\square\square\square} \ f(x) = \ln(x + \sqrt{1 + x^2}) + e^x - e^x_{\square\square\square\square\square} \ f(ax + 1) > f(ax$$

$$\mathbf{A} = (\frac{1}{\vec{e}} \mathbf{1}^{+\infty})$$

$$\operatorname{Bn}^{\left[-\frac{1}{\vec{e}}_{\Pi^{+\infty}}\right]}$$

$$\mathbf{A}_{\square}^{\left(\frac{1}{\vec{e'}}_{\square}^{+\infty}\right)} \qquad \mathbf{B}_{\square}^{\left[-\frac{1}{\vec{e'}}_{\square}^{+\infty}\right)} \qquad \mathbf{C}_{\square}^{\left(-\frac{2}{\vec{e'}}_{\square}^{+\infty}\right)} \qquad \mathbf{D}_{\square}^{\left[\frac{2}{\vec{e'}}_{\square}^{+\infty}\right)}$$

$$D\Pi^{\left[\frac{2}{\vec{e}}\right]}\Pi^{+\infty}$$

 $\int h(x) = x + \sqrt{1 + x^2}$

$$H(x) = 1 + \frac{x}{\sqrt{1 + x^2}} = \frac{\sqrt{1 + x^2} + x}{\sqrt{1 + x^2}} > 0$$

 $\bigcap h(x) \bigcap R_{0000000} h(x) > 0$

$$0000 Y = h(h(x)) \cap R_{000000}$$

$$f(x) = ln(x + \sqrt{1 + x^2}) + e^x - e^x R_0$$

$$\bigcap f(aX+1) > f(nX) \bigcap (0,+\infty)$$

$$g(x) = \frac{\ln x - 1}{x} \prod_{n \in \mathbb{N}} g'(x) = \frac{2 - \ln x}{x^2}$$

$$\square \mathcal{G}(X) > 0 \square \square 0 < X < \vec{e} \square$$

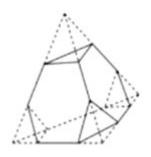
$$\square^{\mathcal{G}(X) < 0} \square \square^{X > \vec{\mathcal{C}}} \square$$

$$= \mathcal{G}(\mathbf{X}) = (0,\vec{e'}) = (0,\mathbf{e'}) = ($$

$$g(x), g(\vec{e}) = \frac{1}{\vec{e}}$$

$$a > \frac{1}{\vec{e}}$$

 $\Box\Box\Box A\Box$



$$\frac{\sqrt{11}\tau}{2}$$

$$\frac{4\pi}{3}$$

$$\frac{11\tau}{6}$$

$$4 \times \frac{\sqrt{3}}{4} \times \vec{a} = \sqrt{3}\vec{a}$$

$$\sqrt{3}\vec{a^2} - 8 \times \frac{\sqrt{3}}{4} \times (\frac{1}{3}\vec{a})^2 = \frac{7\sqrt{3}\vec{a^2}}{9} = 7\sqrt{3}$$

$$h = \sqrt{a^2 - (\frac{a}{2})^2} = \frac{3\sqrt{3}}{2}$$

$$H = \sqrt{\vec{a} - (\frac{2}{3}h)^2} = \sqrt{6}$$

$$V = \frac{1}{3} \times \frac{1}{2} \times a \times h \times H = 4 \times \frac{1}{3} \times \frac{1}{2} \times a \times h \times d \qquad d = \frac{H}{4} = \frac{\sqrt{6}}{4}$$

$$R' = r^2 + d^2 = 1 + \frac{6}{16} = \frac{11}{8}$$

$$\frac{4}{3}\pi R^* = \frac{11\sqrt{22}\pi}{24}$$

 $\Box\Box\Box$ C_{\Box}

```
nnnnn Annnnnnn An Bnnn AM \perp In BE \perp Innnnnn Mn En
 \square \ AF = AM \square \ BF = BE \square \square \ B \square \ BN\bot \ AM \square \square \square \ N \square \square \ MN = BE \square \square 
\therefore AN = AF - BF = 2BF = \frac{1}{2}AB
0000 AB_{0000} \angle AFx = 60^{\circ} 0
0000000 AB0000000 120^{\circ} 0
0000000 AB_{00000} 60^{\circ} 0 120^{\circ} 000000
\frac{p}{2} = 1
\operatorname{nnn} A_{\square} B_{\square} AM \pm I_{\square} BN \pm I_{\square \square \square \square} \mathcal{Y}_{\square \square \square} M_{\square} N_{\square}
00000 M_{\square} N_{\square \square} AF = AM_{\square} BF = BN_{\square}
{}_{\square} {}^{\Delta} B\!C\!F_{\square} {}^{\Delta} A\!C\!F_{\square \square \square \square \square \square \square} \, {}^{S}_{\square} \, {}^{S}_{\square} 
\frac{S}{S_2} = \frac{BC}{AC} = \frac{BN}{AM} = \frac{BN-1}{AM-1} = \frac{|BF|-1}{|AF|-1}
C_{\square\square} M(-\frac{p}{2} m)_{\square} A(\frac{y_1}{2p}, y_1)_{\square} B(\frac{y_2}{2p}, y_2)_{\square}
X = t(y-m) - \frac{P}{2}
```

$$\triangle = 4 p^2 t^2 - 4(2 p t m + p^2) = 0$$

$$pt - 2nt - p = 0$$

$$t + t_2 = \frac{2m}{p} t t_2 = -1$$

$$\therefore y_1 = p_1^t y_2 = p_2^t$$

$$K_{AB} = \frac{y_1 - y_2}{\frac{y_1^2}{2p} - \frac{y_2^2}{2p}} = \frac{2p}{y_1 + y_2}$$

$$AB_{00000} y - y_1 = \frac{2p}{y_1 + y_2} (x - \frac{y_1^2}{2p})$$

$$y=0$$
 $X=-\frac{XY_2}{2p}=\frac{p}{2}$ $AB_{0000}F_{0000}$

 $D_{\square \square \square \square \square \square \square} AB_{\square \square \square \square} F_{\square \square \square \square \square} X_{\square \square \square} N(p_{\square}^{\square})_{\square} k_{_{AB}} = 2_{\square}$

$$\begin{cases} x = \frac{1}{2}y + p \\ y^2 = 2px & \text{one } y^2 - py - 2p^2 = 0 & \text{one } y_1 = 2p & y_2 = -p \\ 0 & \text{otherwise} \end{cases}$$

$$\therefore A(2p;2p) {\atop \square} {}^{B}(\frac{p}{2} {\atop \square}^{2} p) {\atop \square}$$

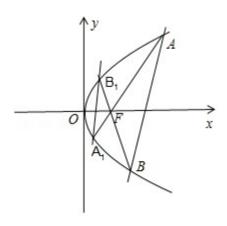
$$y-0 = \frac{2p-0}{2p-\frac{p}{2}} (x-\frac{p}{2})$$

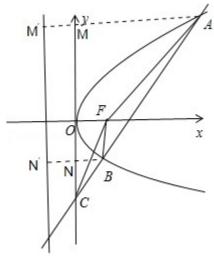
$$y = \frac{4}{3} (x-\frac{p}{2})$$

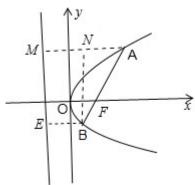
$$y = 2px$$

$$A(\frac{p}{8} - \frac{p}{2})$$

 $\square\square\square$ ABC







$$\mathbf{A}_{\square} \mathbf{y}_{1} \mathbf{y}_{2} = \frac{1}{4}$$

Dood B_0 X_0

$$\begin{cases} y = kx + \frac{1}{2} \\ x^2 = 2y \end{cases} = 0$$

00A000

$$(\frac{X + X_2}{2} - \frac{Y_1 + Y_2}{2}) - (kk^2 + \frac{1}{2})$$

$$\frac{|AB|}{2} = \frac{y_1 + y_2 + 1}{2} = k^2 + 1$$

$$y = -\frac{1}{2} \frac{1}{2} \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = k^2 + 1$$

$$|OA| + |OB| = \sqrt{5} < 2\sqrt{2}$$

$$_{00} | OA| + | OB|_{000000} 2\sqrt{2}_{00} C_{0000}$$

$$y = \frac{y_1}{x} x = \frac{x_1}{2} x$$

$$0 = \frac{x_1}{x} x = \frac{x_1}{2} x$$

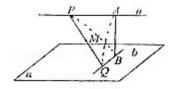
$$0 = \frac{x_1}{x} = \frac{x_1}{2}$$

$$0 = \frac{x_1}{x} = \frac{x_1}{2}$$

$$\frac{X_{1}X_{2}}{2} = \frac{1}{2} \underbrace{\begin{array}{c} X_{1}X_{2} \\ 0 \\ 0 \\ 0 \end{array}}_{B_{1}} \underbrace{\begin{array}{c} X_{1}X_{2} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}}_{OA_{0000000}} \underbrace{\begin{array}{c} Y=-\frac{1}{2} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}}_{D000}$$

 $\square\square\square$ $ABD\square$

 $b_{00000} PQ_{0} AB_{0000} \theta = \frac{\pi}{4}_{000} PQ_{0000} M_{00000000} ()$



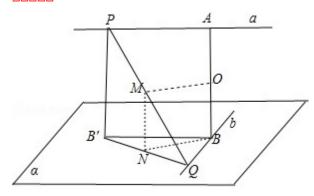
$$\begin{array}{ccc} & PQ & 2\sqrt{2} \\ \mathbf{A} & \boxed{} & \boxed{} & \end{array}$$

$$\mathsf{Coo}^M_{\square \square \square \square \square}$$

PQ B0 000000

 $0000000 P_0 PB \perp \alpha_{00} B_0$

$$\operatorname{dd}^{BQ}$$



$$\square \angle QPB = \frac{\pi}{4}$$

$$PQ = \frac{2}{\cos \frac{\pi}{4}} = 2\sqrt{2}$$

$$\begin{smallmatrix} B & Q_{\square \square \square \square} & N_{\square \square \square} & BB \perp BQ_{\square \square} & BQ = 2_{\square \square \square} & BN = 1_{\square} \end{smallmatrix}$$

 $\ \, AB_{0000}\,O_{000}\,O_{0}\,M_{0}\,N_{0}\,B_{000000}\,OMNB_{0000000}$

$$OM = BN = 1$$
 $MN = \frac{1}{2}PB$

 $00M_{000}\alpha 000000$

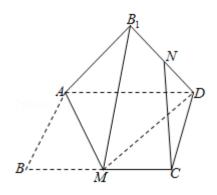
 $000\ M_{0000000}\ C_{000}$

oo Q_0 $B_{000000000}$ ${}^{A-}$ ${}^{B\!PQ}_{0000000}$

 $\square\,D_{\square\square\square}$

 $\square\square\square \ ^{AC}\square$

 $29002021 \bullet 000000000 \ ABCD_{\square\square} \ M_{\square} \ BC_{\square\square\square\square\square} \ \Delta ABM_{\square\square\square} \ AM_{\square\square\square\triangle} \ ^{ABM}_{\square\square\square} \ ^{BC}_{\square\square\square\square\square} \ ABD_{\square\square\square\square} \ ABCD_{\square\square\square} \ ABD_{\square\square\square\square} \ ABD_{\square\square\square} \ ABD_{\square\square\square\square} \ ABD_{\square\square\square} \ ABD_{\square\square\square} \ ABD_{\square\square\square} \ ABD_{\square\square\square} \ ABD_{\square\square\square} \ ABD_{\square\square\square} \ ABD_{\square\square} \ ABD_{\square\square} \ ABD_{\square\square} \ ABD_{\square\square} \ ABD_{\square\square} \ ABD_{\square} \ ABD_{\square}$



 $CN\perp AB_1$

A

 $\mathbf{B}_{\square\square\square\square\square\square\square} \stackrel{CN}{=} \mathbf{0}$

$$\mathbf{C} \square \square \stackrel{AB = BM}{\square} \stackrel{AM \perp}{\square} \stackrel{RD}{\square}$$

0000000 A000 100 AD00 E000 EC0 MD0 F0

$$\square^{N\!E//A\!B_{\!\!\scriptscriptstyle 1}} \square^{N\!F//M\!B_{\!\!\scriptscriptstyle 1}} \square^{N\!F/M\!B_{\!\!\scriptscriptstyle 1}} \square^{N\!F/M\!B_{\!$$

$${}_{\square} E\! N\!\bot C\! N_{\square\square\square\square} \, N\!\!E_{\square} \, N\!\!F_{\square} \, N\!\!C_{\square\square\square\square\square\square\square\square\square\square} \, A_{\square\square}$$

 $00B_{000}1_{0000}\angle NEC=\angle MAR_{00000}$

$$NE = \frac{1}{2}AR_{000000}AM = EC_{000000}$$

$$0000000 NC^{1} = NE^{2} + EC^{2} - 2NE \cdot EC \cdot \cos \angle NEC_{\square}$$

 $\therefore N\!C_{\square \square \square \square \square} \, B_{\square \square \square}$

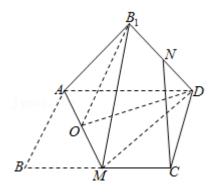
 $0000~AM \bot 0~ODR_{00000}~OD \bot AM_{0}$

 $\square\square AD = MD_{\square \square \square \square \square \square \square \square \square} C_{\square \square \square}$

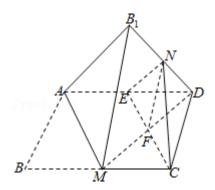
 $= D_{0000} \stackrel{RAM \perp}{\longrightarrow} AMD_{00000} \stackrel{R}{\longrightarrow} AMD_{00000}$

 $0000~AD_{00}~H_{00000}~R^{+}~AMD_{00000000}$

0000 100000 4τ 00 D

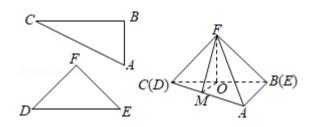


 $\square\square\square \ BD\square$



 $\mathbf{30} \\ \boxed{0} \\ \boxed{2} \\ \boxed{0} \\$

 $\angle A = 60^{\circ} \ \Box \ \angle D = 45^{\circ} \ \Box \ BC = DE = \sqrt{3} \ \Box \ BC \ \Box \ D \ AC \ \Box \ M \ \Box \ \Box \ \Box \ AC \ \Box \ M \ \Box \ \Box \ \Box \ \Box \ AC \ \Box \ AC$



$$A \square \, B\!C \bot_{\,\square} \, O\!F\!M$$

$$_{\mathrm{Bo}}$$
 $^{AC}_{\mathrm{OO}}$ $^{OFM}_{\mathrm{OOOOOO}}$

Dono
$$BCF \perp_{00} ABC_{00000} F$$
- $ABC_{000000} \frac{4}{3}\pi$

0000000 A_{000} O_{0} BC_{0000} M_{0} AC_{000000} MO/ / AB_{0}

$$\angle B = \angle F = 90^{\circ} \square \square \square BC \perp OM \square$$

 ${}_{\square}{}^{\Delta}B\!C\!F_{\square\square\square\square\square\square\square\square\square\square\square\square}B\!C\!\perp O\!F_{\square}$

$$\square^{MO \bigcap FO = O} \square^{MO \bigcap FO \subseteq OFM} \square^{OFM}$$

$$\ \, \square\square \, BC \bot \square\square \, OFM \square \square \square \, A\square \square \square$$

$$= B_{\square\square\square\square} A_{\square\square\square} AC_{\square\square\square} OFM_{\square\square\square\square\square} \angle OMC = 60$$

$$= C_0 \Delta COM_{0000000000} F - COM_{00000} F_{0000000000000} C_{000}$$

$$\bigcirc D_{\square \square \square \square \square} BCF \bot_{\square \square} ABC_{\square \square \square} BCF \cap \bigcirc ABC = BC_{\square} FO \subseteq_{\square \square} BCF_{\square}$$

$$BC = DE = \sqrt{3} \ \triangle A = 60^{\circ} \ \Box \Box FO = \frac{1}{2}DE = \frac{\sqrt{3}}{2} \ \Box$$

$$\square AB = 1 \square \square OM = \frac{1}{2}AB = \frac{1}{2} \square \square MF = \sqrt{FO' + OM'} = 1 \square$$

$$MA = MB = MC = \frac{1}{2}AC = 1$$

$$\square MA = MB = MC = MF$$

$$000 M_{0000} F$$
- $ABC_{0000000}$

$$V = \frac{4}{3}\pi \cdot 1^{3} = \frac{4}{3}\pi$$

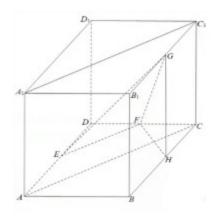
 $\square\square\square$ ABD

____**20**

 $\angle BAD = 60^{\circ}$

 $00000000 \ AC_0 \ EF_{00} \ AC_1/AC_0 \ EF//AC_{000} \ AC_1/EF_0$

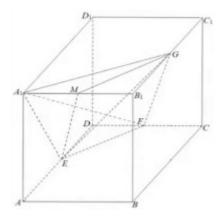
on $\angle \mathit{EFG}_0$ and AG_0 FG_0 and AG_0



 $\ \, \square \, BC_{\square\square} \, H_{\square\square\square} \, GH_{\square} \, FH_{\square\square\square} \, \Delta \, GHF_{\square\square} \, FG_{\square\square\square\square\square\square\square\square\square\square}$

 $\ \, \square\square \ EG\square \ GE=2\sqrt{2}\square\square\square \ EG^{*}=EF^{*}+FG^{*}\square\square \ EF\bot \ FG\square\square \ AC_{1}\bot FG\square$

00000 $^{AG}_{0}$ $^{FG}_{00000000}$ 00



00000 $^{AB}_{000}$ $^{ME}_{00}$ $^{ME}_{000}$ MG I $^$

$$V_{\text{A-}EFG} = V_{\text{A-}ENG} = V_{\text{E-}ANG} = \frac{1}{3} \times (\frac{1}{2} \times 1 \times \sqrt{3} \times \sin 150^{\circ}) \times 2 = \frac{\sqrt{3}}{6}$$

$$\frac{\sqrt{3}}{6}$$

$$E: x^2 + (y - \frac{1}{2})^2 = \frac{49}{4} \lim_{n \to \infty} F_2 = \frac{x^2}{9} - \frac{y^2}{3} = 1$$

 $0000000 P(X_0 y_0) P_1^{(-\zeta_0 0)} P_1^{(-\zeta_0 0)} P_2^{(-\zeta_0 0)} P_1^{(-\zeta_0 0)} P_2^{(-\zeta_0 0)}$

$$\frac{X_{0}-C}{2}=0 \quad \frac{Y_{0}}{2}=\frac{1}{2} \quad X_{0}=C_{\square} \quad Y_{0}=1_{\square}$$

$$\frac{x^2}{9} - \frac{y^2}{3} = 1$$

$$\frac{x^{2}}{9} - \frac{y^{2}}{3} = 1$$

 BC_0 BD_0 D_0 P_0 Q_0 D_0 Q_0 $Q_$

 $0000000 \ B_0 \ ^{BO\perp} \ ^{PQ}_{00000} \ ^{O}_{0000} \ ^{OA}_{0}$

$$\square^{PQ} \subseteq \square\square^{BCD} \square \square \square^{AB \perp PQ} \square$$

$$\square \square \angle BAO \square AB \square \square \alpha \square \square \square \square \angle BAO = 30^{\circ} \square$$

$$OA = \frac{2\sqrt{3}}{3}$$

$$0000 \stackrel{APQ}{=} 000000 \stackrel{PQ}{=} 000$$

$$\square PQ.2BO_{\square \square \square \square \square} BP = BQ_{\square \square \square \square \square \square}$$

$$PQ_{mn} = 2BO = \frac{2\sqrt{3}}{3}$$

$$S = \frac{1}{2} \times \frac{2\sqrt{3}}{3} \times \frac{2\sqrt{3}}{3} = \frac{2}{3}$$

 $\frac{2}{3}$

$$PA_{\square} PB_{\square \square \square \square \square} \underbrace{k_{\square} k_{\square}}_{} f(|k_{\square}|) = f(|k_{\square}|)_{\square \square \square \square} \underbrace{f(x) \dashv In(\frac{x}{2})}_{} |_{\square \square} C_{\square \square \square \square \square} \underbrace{y = \pm 2x}_{} \underline{\square}$$

$$K_{1} \cdot K_{2} = \frac{Y_{0}}{X_{0} + a} \cdot \frac{Y_{0}}{X_{0} - a} = \frac{Y_{0}^{2}}{X_{0}^{2} - a^{2}} = \frac{B}{a^{2}}$$

$$\begin{vmatrix} \frac{k}{2} & | \frac{k}{2} \\ 0 & 0 & 0 \end{vmatrix}$$

$$k_1 \cdot k_2 = \frac{b^2}{a^2} = 4$$

$$\therefore y = \pm 2x_{\square}$$

 $00000 y = \pm 2x_0$

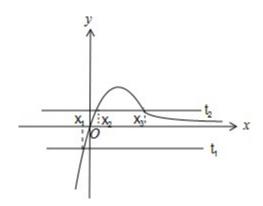
$$0000000 f(x) = 0 \underset{\square}{\square} x(x - e^x) + e^{-x} + ne^x(x - e^x) = 0$$

$$000000 e^{x}(X-e^{x}) 0000 \frac{X}{e^{x}} + \frac{e^{x}}{X-e^{x}} + m=0$$

$$\frac{\frac{X}{e^{x}} + \frac{1}{\frac{X}{e^{x}} - 1} + m = 0}{\frac{X}{e^{x}} = t} + \frac{1}{t - 1} + m = 0$$

$$\therefore t^{2} + (m-1)t + 1 - m = 0$$

$$g(x) = \frac{X}{e^x} \prod_{i=1}^{\infty} g'(x) = \frac{1-X}{e^x} \prod_{i=1}^{\infty} g(x) \prod_{i=1}^{\infty} (-\infty,1) \prod_{i=1}^{\infty} (-\infty,1) \prod_{i=1}^{\infty} g(x)$$



$$\frac{X}{e^{s}} + \frac{e^{s}}{X^{-}} + m = 0$$

$$t_1 + t_2 = 1 - m_{1} t_2 = 1 - m_{2} \frac{X_1}{e^{x_1}} = t_1 \frac{X_2}{e^{x_2}} = \frac{X_3}{e^{x_3}} = t_2$$

$$\frac{(\frac{X_1}{e^{X_1}}-1)^2(\frac{X_2}{e^{X_2}}-1)(\frac{X_3}{e^{X_3}}-1)=(t_1-1)^2(t_2-1)^2}{e^{X_1}}$$

$$=[(t_1-1)(t_2-1)]^2=[t_1t_2-(t_1+t_2)+1]^2=[1-m_1(1-m)+1]^2=1$$

$$m$$
- $(\frac{X_1}{e^{X_1}} - 1)^2 (\frac{X_2}{e^{X_2}} - 1)(\frac{X_3}{e^{X_3}} - 1) = m$ - $1 \in (0, \frac{1}{e^2 - e})$

$$0, \frac{1}{\overrightarrow{e} - \overrightarrow{e}}$$

$$EF = 1_{\Box} CD = \sqrt{3}_{\Box\Box} XY_{\Box\Box\Box\Box} - \frac{1}{16}_{\Box\Box}$$

 $AB \cap DC = C_{\square}$

$$AB = AE + EF + FB = EF + \frac{AD - BC}{2}$$

$$DC = DE + EF + FC = EF + \frac{BC - AD}{2}$$

$$\Box \Box AB + DC = 2EF \Box \Box EF = \frac{AB + DC}{2} \Box$$

$$1 = \frac{A\vec{B} + D\vec{C} - 2AB \cdot DC}{4} = \frac{2 + 3 + 2AB \cdot DC}{4}$$

$$AB \cdot DC = -\frac{1}{2}$$

$$OD \cdot OC + OA \cdot OB = X + OD \cdot OB + OA \cdot OC_{\square}$$

$$AC \cdot BD = (OC - OA) \cdot (OD - OB) = OD \cdot OC - OC \cdot OB - OA \cdot OD + OA \cdot OB = y_{\square}$$

$$OD \cdot OC + OA \cdot OB = y + OC \cdot OB + OA \cdot OD$$

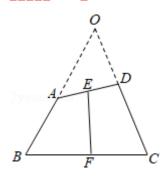
$$\square \square X + OD \cdot OB + OA \cdot OC = y + OC \cdot OB + OA \cdot OD \square$$

$$X^{-} \quad Y = OC \cdot OB + OA \cdot OD - (OD \cdot OB + OA \cdot OC) = OB \cdot DC + OA \cdot CD = DC \cdot (OB - OA) = DC \cdot AB = -\frac{1}{2}$$

$$y = x + \frac{1}{2}$$

$$xy = x(x + \frac{1}{2}) = x^2 + \frac{1}{2}x = (x + \frac{1}{4})^2 - \frac{1}{16}$$

$$X = -\frac{1}{4} \underbrace{000}_{XY} \underbrace{00000}_{16} - \frac{1}{16} \underbrace{000}_{000} Y = -\frac{1}{4} + \frac{1}{2} = \frac{1}{4} \underbrace{0}_{000}$$



 $0000 \times [0_{1}]_{1} f(x) \in [2a_{1}a+1]_{1}$ $\underset{\square}{\square} \mid f(x) \mid_{"} 2_{\underset{\square}{\square} \square} x \in [0_{\underset{\square}{\square}} 1]_{\underset{\square}{\square} \square}$ a, 0 |2a|,, 2 |a+1|,, 2 - 3,, a, 0 $\int_{0}^{\sqrt{3a}} \frac{1}{3a} \cdot 1 \int_{0}^{1} f(x) \in [2a_{0}a + 1]_{0}$ $\begin{bmatrix} |2a|, 2 \\ |a+1|, 2 \end{bmatrix} 0 < a, \frac{1}{3}$ $\sqrt{\frac{1}{3a}} < 1 \qquad |f(x)|, 2 \qquad x \in [0, 1]_{0000}$ |2*a*|,, 2 |*a*+1|,, 2

 $\int |f(\sqrt{\frac{1}{3a}})|_{,,} 2 \frac{1}{3} < a, 1$

000000 ^a000000 ^{[- 3}0 ^{1]}0

00000[-301]0

$$|AF_1| AF_2$$

$$000000000 |AF_1| - |AF_2| = 2a_{00} |AB| = |AF_2|_{0}$$

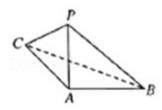
$$\therefore |AF_1| - |AF_2| = |AF_1| - |AB| = |BF_1| = 2a_{\square}$$

$$\square |BF_2| - |BF_1| = 2a_\square : |BF_2| = 4a_\square$$

$$|AB| = |AF_2| = 2\sqrt{2}a_{\square}$$

$$(2\sqrt{2}a + 2a)^2 + (2\sqrt{2}a)^2 = 4c^2$$

$$\vec{e} = \frac{\vec{c}}{\vec{a}^2} = \frac{20 + 8\sqrt{2}}{4} = 5 + 2\sqrt{2}$$



 $\angle BAC = \frac{2\tau}{3}$

 ${}_{\square} \Delta ABP_{\square} \Delta ABC_{\square\square\square\square\square\square\square\square\square} \stackrel{Q_{\square}}{=} {}_{\square} \stackrel{Q_{\square}}{=} {}_{\square} \stackrel{Q_{\square}}{=} PB_{\square\square\square\triangle} \stackrel{Q_{\square}}{=} AB_{\square\square\square\square\square\square}$

 $\bigcirc AB_{ \square \square \square} H_{ \square \square \square} QH_{ \square} QH_{ \square \square \square} QH \bot AB_{ \square} Q_2H \bot AB$

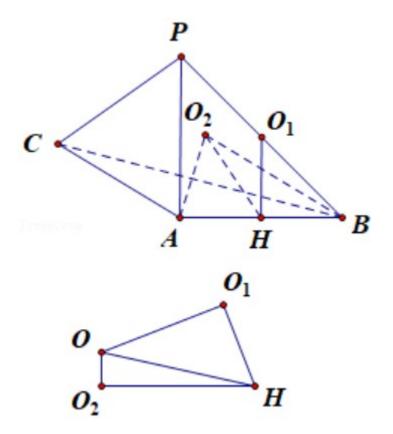
$$O_{00} O_{01} O_{01} + QH_{01} O_{02} + QH_{01} \angle OHQ = \theta_{01} \angle OHQ = \frac{\pi}{3} - \theta_{02} \angle OHQ = \frac{\pi}{3} - \theta_{03} \angle OHQ$$

$$OH = \frac{QH}{\cos\theta} = \frac{Q_2H}{\cos(\frac{\pi}{3} - \theta)} \quad \tan\theta = 2 - \frac{\sqrt{3}}{3} \quad OQ = QH \cdot \tan\theta = 1 - \frac{\sqrt{3}}{6}$$

$$I^{2} = OO_{1}^{2} + O_{1}P^{2} = (1 - \frac{\sqrt{3}}{6})^{2} + (\frac{\sqrt{2}}{2})^{2} = \frac{19}{12} - \frac{\sqrt{3}}{3}$$

$$S = 4\tau I^2 = \frac{19 - 4\sqrt{3}}{3} \pi$$

$$\frac{19 - 4\sqrt{3}}{3} \pi$$



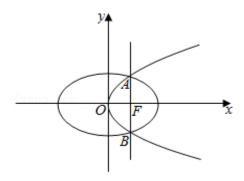
 $F_{0000}\,M_{0000}\,C_{00}\,A_0\,B_{000}\,A_0\,B_0\,F_{00000000}\,C_{00000}\,\underline{\hspace{0.2cm}}\sqrt{2}+1\underline{\hspace{0.2cm}}_0$

$$\frac{p}{2} = c \qquad A(c, 2c)$$

$$2c = \frac{B}{a} \sum_{\alpha = 0} 2ac = B = c^2 - \vec{a}$$

$$\therefore \vec{e} - 2e - 1 = 0_{\square \square \square} e = \sqrt{2} + 1(e > 1)_{\square}$$

$$00000\sqrt{2} + 10$$



000000000 $2^{n+1}(1, n, 9_0 n_{0000} - n_{000000})$

0000000 n000000 n- 10000 n- 20000

$$a_n = 2a_{n/1} + 2 = 2(2a_{n/2}?1) + 2 = 4a_{n/2}$$

000 $\{a_n\}$ 0000000 1 00004 00000000

$$a_n = 1 \times 4^{\frac{n+1}{2}+1} = 2^{n+1} (1, n, 9_{0})$$

____2"1(1,, 12, 9₀ 11₀₀₀₀₀

0000000000 M_0 O_{00000} $|MO| = 4_0$

 $C: \frac{X^{2}}{16} - \frac{Y^{2}}{9} = 1_{00000000} F_{10} F_{20}$

 ${\scriptstyle \square \square}^{\,F_{_{2}}M_{_{\square}}\,PF_{_{1}}_{_{\square}}\,H_{_{\square}}}$

 $\| PM_{\square} \angle F_1 PF_2 \|_{\square \square \square \square \square \square} \angle |PH| = |PF_2|_{\square}$

$$P_{000000} : |PF_1| - |PF_2| = 2a_0$$

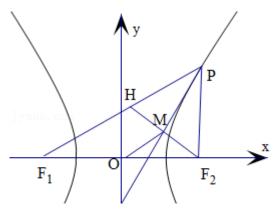
$$|PF_1| - |PH| = |F_1H| = 2a$$

$$\mathbb{I} \quad \mathcal{O}_{\square} \stackrel{F_1F_2}{=} \mathbb{O} \mathbb{O} \mathbb{O} \stackrel{M_{\square}}{=} \stackrel{F_2H}{=} \mathbb{O} \mathbb{O} \mathbb{O}$$

$$\therefore OM_{\square \triangle} \stackrel{F_2F_1H_{\square \square \square \square \square}}{=} \therefore |HF_1| = 2|OM|_{\square}$$

$$\bigcap |OM| = a_{\bigcap}$$

$$C: \frac{X^2}{16} - \frac{y^2}{9} = 1$$
 $a = 4$ $OM = 4$



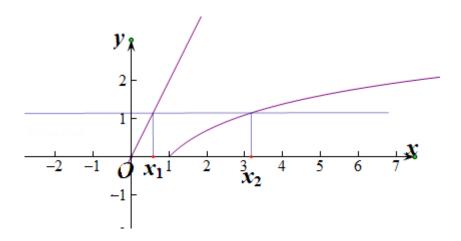
$$f(x) = \begin{cases} 2x_0, & x_1 \\ hx_1 & x > 1 \end{cases}$$

$$f(x) = f(x_2) = f(x_2) = hx_2 = hx_2 = \frac{1}{2} hx_2$$

$$g(t) = t - 2\ln t(1 < t, e)$$

$$\cos^{g(b)}(^{(1}(2))) = \cos^{[2}(e^{i}) = \cos^{[2}(e^{i}))$$

$$\int_{\Omega} g(t)_{min} = g_{20} = 2 - 2ln 2_{0}$$



$$| | | | X \in [0_{\square} 1) | | f(X) = \sin \pi X_{\square}$$

$$\int f(x) = 2 f(x-1)$$

$$\therefore a = \frac{1}{2} \cdot d = 1 \cdot d =$$

$$\therefore a_n = \frac{1}{2} + (n-1) \times 1 = n-\frac{1}{2}$$

$$b_n = 2^{n-1}$$

$$\sum_{j=1}^{9} (a_j + b_j) = \sum_{j=1}^{9} a_j + \sum_{j=1}^{9} b_j = \frac{1}{2} \times 9 + \frac{9 \times 8}{2} \times 1 + \frac{1 \times (1 - 2^9)}{1 - 2} = \frac{9}{2} + 36 + 2^9 - 1 = \frac{1103}{2}$$

$$\begin{array}{c} 1103 \\ 00000 \\ \hline \end{array}$$

 $45002021 \bullet 00000000000 \stackrel{C: \ X^2 + \ y^2 = 1}{=} 00 \ \stackrel{M(t,2)}{=} 00 \ \stackrel{C}{=} 00000 \ \stackrel{A_0}{=} B_{00} \ \stackrel{MA = 2AB}{=} 0000 \ \stackrel{t}{=} 00000 \ _$

 $0000001 \ 0 \ C: X^2 + y^2 = 1_{00} \ M(t,2)_{00} \ C_{000000} \ A_0 \ B_{00} \ MA = 2AB_0 \ ... \ A_0 \ MB_{000} \ 3 \ 00000 \ B_{000} \ A_0 \ B_0 \ B_0 \ B_0 \ A_0$

 $\therefore t^e + 4,, \ 25_{\scriptsize \square} \therefore -\sqrt{21},, \ t,, \sqrt{21}_{\scriptsize \square}$

 $00000^{[-\sqrt{21}_0\sqrt{21}]_0}$

0000000 n 000000000 m 000000000000 n 000000000 m 0000000000 $^{m>0}$ 000 $^{2_{1}}$

$$a_{13} = a_{c1} + 1_{000} \, \text{M} \, 00000 \, S_{00000000}$$

$$\mathfrak{D}^{m=3}$$

$$a_y = (3i - 1) \times 3^{i-1}$$

$$S = \frac{1}{4}\pi(3n+1)(3^n-1)$$

$$a_{11}$$
 a_{12} a_{13} \dots a_{1n}

$$a_{21}$$
 a_{22} a_{23} \dots a_{2n}

$$a_{31}$$
 a_{32} a_{33} \dots a_{3n}

.....

$$a_{n1}$$
 a_{n2} a_{n3} \dots a_{nn}

$$\therefore \, a_{\!\scriptscriptstyle y} = a_{\!\scriptscriptstyle 1} \cdot 3^{\scriptscriptstyle +1} = [2 + (i \!-\! 1) \cdot 3] \cdot 3^{\scriptscriptstyle +1} = (3i \!-\! 1) \cdot 3^{\scriptscriptstyle +1}$$

$$a_{67} = (3 \times 6 - 1) \cdot 3^{7-1} = 5 \times 3^{7}$$

$$=\frac{a_{11}(1-3^n)}{1-3}+\frac{a_{21}(1-3^n)}{1-3}+\frac{a_{31}(1-3^n)}{1-3}+\cdots\cdots+\frac{a_{n1}(1-3^n)}{1-3}$$

$$= \frac{1}{2} (3^n - 1) \cdot (a_{11} + a_{21} + \dots + a_{n1})$$

$$=\frac{1}{2}(3^n-1)\cdot(2n+\frac{n\times(n-1)}{2}\times3)$$

$$= \frac{1}{4}n(3n+1)(3^{n}-1)$$

[][][](1)(3)(4)[]

$$F(x) = \begin{cases} f(-1, 2a, -2a), x > 0 \\ f(1, 2a, a), x, 0 \\ 0 = 0 \end{cases}$$

$$\prod_{i=1}^{n} F_i(x) = f(1,2,0) = x^2 + 2x \prod_{i=1}^{n} F_i(x) = f(-1,2,0) = -x^2 + 2x \prod_{i=1}^{n} F_i(x) = -x^2 + 2x$$

$$F_1(x) = 2x + 2 R_{000000} F_2(x) = -2x + 2 R_{000000}$$

$$F_1(0) = F_2(0) = 0$$
 $F_1(0) = F_2(0) = 2$

$y=2\,x_0$

$$F(x) = \begin{cases} f(-1, 2a, -2a), x > 0 \\ f(1, 2a, a), x, 0 \end{cases} \qquad F(x) = \begin{cases} -x^2 + 2ax - 2a, x > 0 \\ x^2 + 2ax + a, x, 0 \end{cases} \square$$

$$\begin{cases}
 y = ax \\
 y = x^2 + 2ax + a_{00000} x^2 + ax + a = 0_0
\end{cases}$$

$$\triangle = \vec{a} - 4a.0_{\square \square} a.4_{\square} a., 0_{\square \square} a.4_{\square}$$

$$0 = 4\vec{a} - 8a.0_{000} a.8_{0} a.0_{000} a.8_{0}$$

 $\Box a = 8 \Box$

$$\textcircled{1} \bigcirc y = f(1+x) \bigcirc y = f(1-x) \bigcirc x = 1 \bigcirc x$$

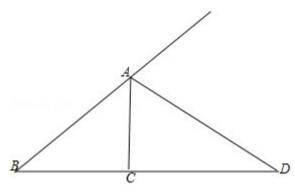
$$\textcircled{2} \ \square \ A_{\square} \ B_{\square} \ C_{\square \square \square \square \square \square} \ P(A \cdot B \cdot C) = P_{\square} A_{\square} \ P_{\square} B_{\square} \ P_{\square} C_{\square}$$

$$\textcircled{3} \ \square \ \overset{X^*}{=} \ 1(X \in C_{\square \square} \ C_{\square \square \square \square \square \square \square \square \square} \ \{1\}_{\square}$$

0000000000
$$y = f(1 + x)$$
 000 $y = f(1 - x)$ 0000 $x = 0$

 $00@00A_0B_0C_{000000}P(A\cdot B\cdot C)=P_{0A_0}P_{0B_0}P_{0C_00}A_0B_0C_{0000000000}$

 $\\ \\ \bigcirc \bullet \\ \bigcirc \bullet \\ \\ \triangle ABC \\ \\ \bigcirc \bullet \\ A \\ \\ \bigcirc \bullet \\ \bigcirc \bullet \\ A \\ \\ \bigcirc \bullet \\ \bigcirc \bullet \\ O \\ \\$



$$\frac{AB}{\Box \Delta ABD} = \frac{\sin \angle ADB}{\sin \angle BAD} \frac{AC}{\Box \Box \Delta ACD} = \frac{\sin \angle ADC}{\sin \angle CAD} = \frac{\sin \angle ADB}{\sin ADB} = \frac{\sin \angle ADB}{\cos ADB} = \frac{\cos ADB}$$

$$\lim_{\Omega \to \infty} \sin \angle BAD = \sin \angle CAD_{\Omega \to \Omega} = \frac{AB}{BD} = \frac{AC}{CD_{\Omega \to \Omega}} = \frac{AB}{AC} = \frac{BD}{CD_{\Omega \to \Omega}}$$

$$Z = \frac{1}{n}(\ln y_1 + \ln y_2 + \dots + \ln y_n) \neq y$$

 $k_{\square\square\square\square} \stackrel{e}{e}_{\square} 0.3 \square @ \square \square$

$$OB = (3,2) \cup OB = (3,2) \cup OB$$

[][][]467[

<u>1977</u>

0000000 n0 0 0000 n+10 0 000 1 0000 $a_n = 2n+1$ 0

0 + 1 = 0

 0^{k^2+2k} , 2021_{000} k, 43_{000} 44 0_{0000} 1 000 432 $+43_{000}$ =1892 0_{0000}

00000000 1892 + 85 =1977 ₀

000019770

000040000

- $(2) f(x) = x^2$
- $f(x) = \cos \frac{\pi x}{2}$
- (4) f(x) = lnx + 1

[][][] 23[]

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